31LCDA
Load Correction Device

CLIPSAL®
by Schneider Electric

Enhanced Dimming Control for LED and CFL Lighting

clipsal.com

ELECTRICAL ACCESSORIES

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Improved dimming performance of low-powered, energy-efficient lighting

Today, the lighting market offers consumers more choice than ever before. Low-powered, energy-efficient lighting technologies, such as LEDs and CFLs, are now replacing traditional incandescent or halogen resistive load types. However, this shift has created a market-wide problem — compatibility issues when dimming these new non-resistive loads with phase-controlled dimmers.

Many lighting manufacturers label their LED and CFL loads as being dimmable or compatible, even though there are no test standards to confirm such claims. These non-resistive loads include complex electronic circuits in the LED drivers or CFL ballasts, which attempt to replicate the dimming behaviour of traditional resistive loads. If the LED drivers or CFL ballasts are not fully compatible with a particular dimmer, it will lead to erratic lighting behaviour.

The common indicators of less/non-compatible, energy-efficient lighting are: flickering, significantly smaller dimming range and a dim glow even when the load is in the off-state.

That's why Clipsal by Schneider Electric created a device that provides enhanced dimming control of low-powered, energy-efficient lighting. The Clipsal 31LCDA Load Correction Device is designed to improve the dimming performance of most dimmable LEDs/CFLs, when used in conjunction with Clipsal 2-Wire Dimmers. This affordable solution will compensate for the shortcomings seen in many of these complex and low-powered load types.

The next time you experience compatibility issues between a Clipsal 2-Wire Dimmer and a new LED/CFL load, the 31LCDA should be your first course of action.

Features and Benefits

- Stable dimming control: improved dimming performance and load stability across a wide range.
- Specifically designed for use with Clipsal 2-Wire Dimmers that use phase-controlled dimming technology (LE, TE or universal).
- Ensures off-state: reduces flicker or dim glow when the load is turned off.
- Lowers minimum load constraints: enhanced compatibility with low-powered, dimmable LED or CFL.

Parameter	Description
Cat. no. 31LCDA	Load Correction Device, stand-alone, with 2 fly leads. For low-powered, dimmable CFL and LED lighting loads. For DIN rail and stand-alone dimmer channels.
Operating voltage range	220 – 240V a.c. typical, 50Hz only.
Application	Indoor use only.
Suitability	Clipsal 2-Wire Dimmer products, DIN rail or stand-alone.
Dimmer types	Leading edge, trailing edge or universal.
Suitable loads	Dimmable CFL/dimmable LED with electronic control.
Characteristics	Dimming control stability with extra-low-power loads. Positive off-state for phase-controlled dimmer products. Stability over a wide dimming range.
Load rating	450W for dimmable LED, 350W for dimmable CFL or rating of the dimmer (whichever is less).

TWO YEAR WARRANTY

For more information about the Clipsal Load Correction Device, contact your local Clipsal Representative, electrical wholesaler or visit clipsal.com

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